

**Amendments**

**In the Claims:**

Please amend the claims as shown below. This listing of claims will replace all prior versions and listings of claims in the application:

1. ***(Cancelled)*** An electric insulating material comprising a glass fiber layer and a mica layer disposed thereon, wherein the glass fiber layer comprises twist-free glass yarn.
2. ***(Cancelled)*** An electric insulating material according to claim 1, wherein the glass fiber layer is a woven glass fabric.
3. ***(Cancelled)*** An electric insulating material according to claim 1, additionally comprising at least one polymeric resin.
4. ***(Cancelled)*** An electric insulating material according to claim 3, wherein the polymeric resin comprises a thermosetting resin.
5. ***(Cancelled)*** An electric insulating material according to claim 3, wherein the polymeric resin comprises at least one epoxy resin.
6. ***(Cancelled)*** An electric insulating material according to claim 3, wherein the polymeric resin comprises at least one silicone resin.
7. ***(Cancelled)*** An electric insulating material according to claim 3, wherein the polymeric resin content ranges from about 3% to about 25% by weight.
8. ***(Cancelled)*** An electric insulating material according to claim 3, wherein the polymeric resin content ranges from about 5% to about 18% by weight.
9. ***(Cancelled)*** An electric insulating material according to claim 3, additionally comprising a cure accelerator.

10. **(Cancelled)** An electric insulating material according to claim 9, wherein the cure accelerator comprises a metal or an amine.
11. **(Cancelled)** An electric insulating material according to claim 3, wherein the polymeric resin content ranges from about 25% to about 50% by weight.
12. **(Cancelled)** An electric insulating material according to claim 3, wherein the polymeric resin content ranges from about 27% to about 45% by weight.
13. **(Cancelled)** An electric insulating material according to claim 1, in the form of a tape.
14. **(Withdrawn)** A process for manufacturing an insulated electrical conductor, said method comprising wrapping the electrical conductor with an electric insulating material according to any of the above claims.
15. **(Withdrawn)** A process according to claim 14, additionally comprising heating the wrapped conductor to cure the resin.
16. **(Withdrawn)** A process according to claim 14, wherein the electrical conductor is a wire suitable for use in high temperature environments.
17. **(Withdrawn)** A process according to claim 14, wherein the electrical conductor is a coil for use in a high voltage electrical motor.
18. **(Withdrawn)** A process according to claim 14, additionally comprising impregnating the material with a thermosetting resin before heating the wrapped conductor.
19. **(Cancelled)** A high temperature insulated wire manufactured by:  
  
    wrapping an electrical conductor suitable for high temperature environments with  
    an electric insulating material comprising a glass fiber layer comprising a twist-free glass  
    yarn and a mica layer disposed thereon;

wherein said wire is rated for operation at temperatures up to 450°C.

20. **(Cancelled)** A high temperature insulated wire comprising a wire suitable for high temperature environments wrapped with a tape comprising a glass fiber layer comprising a twist-free glass yarn and a mica layer disposed thereon, wherein said high temperature wire is rated for operation at temperatures up to 1100°C.

21. **(Cancelled)** A high temperature insulated coil manufactured by:  
wrapping an electrical conductor with an electric insulating material comprising a glass fiber layer comprising a twist-free glass yarn and a mica layer disposed thereon,

22. **(Cancelled)** An electric insulating material according to claim 1, wherein the twist-free glass yarn comprises zero-twist glass yarn.

23. **(Cancelled)** An electric insulating material according to claim 1, wherein the material comprises a greater mica content for a given material thickness compared to a material comprising a non-twist free glass yarn having about the same material thickness.

24. **(Cancelled)** An electric insulating material according to claim 1, wherein the material comprises a greater mica-to-glass ratio for a given material thickness compared to a material comprising a non-twist free glass yarn having about the same material thickness.

25. **(Cancelled)** An electric insulating material according to claim 3, wherein the material comprises a lower total polymeric resin content compared to a material comprising a non-twist free glass yarn.

26. **(Cancelled)** An electric insulating material according to claim 1, wherein the material comprises a lower dissipation factor (DF) compared to a material comprising a non-twist free glass yarn.

27. **(Cancelled)** An electric insulating material according to claim 1, wherein the material comprises a lower dissipation factor (DF) at 160 degrees C at a given mica weight compared to a

material comprising a non-twist free glass yarn having about the same mica weight.

28. **(Cancelled)** An electric insulating material comprising a glass fiber layer, a mica layer disposed thereon, and at least one polymeric resin, wherein the glass fiber layer comprises twist-free glass yarn obtained by the following process steps:

(a) providing a fiberglass forming package with a single fiberglass strand wound on the package and having a longitudinal axis;

(b) supporting the package in a manner that permits rotation of the package about the longitudinal axis;

(c) pulling the single strand from the package along the longitudinal axis and simultaneously rotating the package about the longitudinal axis while maintaining a rotational surface speed of the package equal to a linear speed of pulling the single strand and in a direction of rotation such that the fiberglass strand is pulled off the package with a net zero amount of twist; and

(d) wrapping the single strand which is pulled from the package onto a beam which can be used to form a warp beam.

29. **(New)** An electric insulating material comprising a glass fiber layer and a mica layer disposed thereon, and at least one polymeric resin, wherein the glass fiber layer comprises twist-free glass yarn, and

wherein said insulating material has superior tensile strength, an increase in thermoconductivity and a reduced dissipation factor.

30. **(New)** An electric insulating material according to claim 29, wherein the thickness of the glass fiber layer most preferably ranges from about 0.025 mm to about 0.076 mm.

31.     **(New)** An electric insulating material according to claim 30, wherein the thickness of the mica layer most preferably ranges from about 0.02 mm to about 0.13 mm.
32.     **(New)** An electric insulating material according to claim 29, wherein the polymeric resin comprises a thermosetting resin.
33.     **(New)** An electric insulating material according to claim 29, wherein the polymeric resin comprises at least one epoxy resin.
34.     **(New)** An electric insulating material according to claim 31, wherein the polymeric resin comprises at least one silicone resin.
35.     **(New)** An electric insulating material according to claim 29, wherein the polymeric resin content for a VIP process ranges from about 3% to about 25% by weight.
36.     **(New)** An electric insulating material according to claim 29, wherein the polymeric resin content for a VIP process ranges from about 5% to about 18% by weight.
37.     **(New)** An electric insulating material according to claim 29, additionally comprising a cure accelerator.
38.     **(New)** An electric insulating material according to claim 36, wherein the cure accelerator comprises a metal or an amine.
39.     **(New)** An electric insulating material according to claim 29, wherein the polymeric resin content for a resin rich process ranges from about 25% to about 50% by weight.
40.     **(New)** An electric insulating material according to claim 29, wherein the polymeric resin content for a resin rich process ranges from about 27% to about 45% by weight.
41.     **(New)** An electric insulating material according to claim 29, in the form of a tape.

- 42. (New)** An electric insulating material according to claim 29, wherein the twist-free glass yarn comprises woven warp and weft threads with zero twist.
- 43. (New)** An electric insulating material according to claim 29, wherein the insulating material comprises an increased mica to glass thickness ratio for a given material thickness.
- 44. (New)** A high temperature insulated wire manufactured by wrapping an electrical conductor suitable for high temperature environments with an electric insulating material comprising a glass fiber layer comprised of twist-free glass yarn, a mica layer disposed thereon, and at least one polymeric resin; wherein said wire is rated for operation at temperatures up to 450°C.
- 45. (New)** A high temperature insulated wire comprising a wire suitable for high temperature environments wrapped with a tape comprising a glass fiber layer comprised of twist-free glass yarn, a mica layer disposed thereon, and at least one polymeric resin, wherein said high temperature wire is rated for operation at temperatures up to 1100°C.
- 46. (New)** A high temperature insulated coil manufactured by wrapping an electrical conductor with an electric insulating material comprising a glass fiber layer comprising a twist-free glass yarn and a mica layer disposed thereon, and at least one polymeric resin.

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